**Reneal 2022B Box and Project Notes**

**Version 1**

Miscellaneous Notes

1. Nine new schools:
   1. Bicha and Bukula in Kondoa DC
   2. Chief Dodo in Babati DC
   3. Irkisale in Monduli DC
   4. Mtama, Mahiwa, Nyengedi, Namalenga, and Kiwalala in Lindi DC
2. Two expansions of existing labs:
   1. Abeid Amani Karume in Kondoa DC
   2. Namanga in Longido DC
3. Please collect any equipment donated by Apto that has failed and save it at the RO. Neal and I must return it to Apto Solutions for recycling.
4. I accidentally wrote “2023A” on several boxes instead of “2022B”. These boxes are all for 2022B.

Summary of Box Contents

1. Here is the organization of the boxes:
   1. Boxes A-R have laptops/adapters/mice, and a keyboard for each of the 9 new schools. There are ten laptops in each box, and there are two boxes per new school (total of 18 boxes).
   2. Boxes S-T have laptops/adapters/mice for the expansion of Namanga (14), Amani Abeid Karume (4) and inventory (2). Box S also includes Team supplies and tools.
   3. Boxes AA, BB, CC, and DD have the servers and network switches for 8 of the new schools (two per box).
   4. Box EE has monitor stands, video cables, and power cables for monitors for all 9 new schools. Box EE also has the Namalenga server.
   5. The power cable and sys admin manual for each school are inside the server box. Two copies of the donation letter are inside the sys admin manual.
   6. Box FF has 4 monitor screens and tools for the second new Team member.
   7. Box GG has 5 monitor screens and the network switch for Namalenga.
2. The following boxes have all of the equipment for the nine new schools: A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, AA, BB, CC, DD, EE, FF, GG.
   1. Bukulu Secondary School: A, B, part of AA, part of EE, part of FF
   2. Bicha Secondary School: C, D, part of AA, part of EE, part of FF
   3. Chief Dodo Secondary School: E, F, part of BB, part of EE, part of FF
   4. Irkisale Secondary School: G, H, part of BB, part of EE, part of FF [HDMI cable]
   5. Mahiwa Secondary School: I, J, part of CC, part of EE, part of GG
   6. Mtama Day Secondary School: K, L, part of CC, part of EE, part of GG
   7. Nyengedi Secondary School: M, N, part of DD, part of EE, part of GG
   8. Kiwalala Secondary School: O, P, part DD, part of EE, part of GG
   9. Namalenga Secondary School: Q, R, part of EE, part of GG
3. Team tools and supplies in Box S and Box FF. There are RJ45s. There is a bag for each Team member with Sharpie pens and some tools. There is a bag for the first new Team member in Box S. There is a bag for the second new Team member in Box FF. Please give the items labeled for Patrick to the second new Team member. Please give the old blue knife to one of the new Team members. We will need to send another knife next time.
4. In Box S, there are more security stickers to put on all of the laptops that are already in the schools. Please finish putting security stickers on all of the laptops when you visit all schools in February.

1. Here is a list of what you will need at each new school being installed: server, power cord for server, sysadmin manual and donation letters, keyboard, monitor screen, monitor stand (2 pieces), video cable (VGA for all schools except for Irkisale which needs HDMI), power cord for monitor, network switch and power cord, 20 laptops, 20 laptop adapters, 21 mice, UPS, 3 special UPS cords (for server, monitor, and network switch), voltage stabilizer, 5 extensions, Cat6 cable, RJ45 connectors, zip ties, tape, pens, cable clips, screws for mounting the switch, hammer and drill. Please also take the power meter to every school. Before you plug anything in, please check the voltage with the power meter to make sure it is around 220 volts and stable.
2. Here is a list of things you will need at Amani Abeid Karume:
   1. Box in David’s office with 48-port switch and 10 laptops/adapters/mice
   2. 3 extensions
   3. 4 laptops/adapters/mice for Amani Abeid in Box T – please see below for which laptops to take.

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| --- | --- | --- | --- | --- |
| **ID** | **Make** | **Model** | **Notes** | **Box** |
| AS-914 | Dell | E6530 |  | T |
| AS-915 | Dell | E6530 |  | T |
| AS-916 | Dell | E6530 |  | T |
| AS-922 | Dell | E6520 | Sticky h key | T |

* 1. Cat6 cable, RJ45 connectors, zip ties, tape, pens, cable clips, screws for mounting the switch, hammer and drill.

1. Here is a list of things you will need at Namanga:
   1. old 24-port switch from Amani Abeid
   2. 3 extensions
   3. 14 laptops/adapters/mice for Namanga in Boxes S and T – please see below for which laptops to take.

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| --- | --- | --- | --- | --- |
| **ID** | **Make** | **Model** | **Notes** | **Box** |
| AS-727 | Lenovo | X240 | Needs HD | S |
| AS-728 | Lenovo | T420 |  | S |
| AS-729 | Lenovo | T430s |  | S |
| AS-730 | Lenovo | T430s |  | S |
| AS-731 | Lenovo | T430s |  | S |
| AS-732 | Lenovo | T430s |  | S |
| AS-837 | Dell | E6430u | Don't change CMOS, F1 to boot | S |
| AS-838 | Dell | E6430u | Don't change CMOS, F1 to boot | S |
| AS-839 | Dell | E6430u | Don't change CMOS, F1 to boot | S |
| AS-840 | Dell | E6430u | Don't change CMOS, F1 to boot | S |
| AS-847 | Dell | E6530 | Red vertical line | T |
| AS-890 | Dell | E6420 |  | T |
| AS-891 | Dell | E6420 |  | T |
| AS-892 | Dell | E6420 |  | T |

* 1. Cat6 cable, RJ45 connectors, zip ties, tape, pens, cable clips, screws for mounting the switch, hammer and drill.

Arusha Equipment

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| --- | --- | --- |
| **Item** | **Purchased** | **Destination** |
| Uninterruptible power supply (UPS) | 9 | All schools |
| Voltage stabilizer, 500VA | 9 | All schools |
| Power universal extensions (5 outlets) | 51 | 5 each for all new schools (9 schools)  3 each for expanded schools (2 schools) |

PLEASE NOTE: We have purchased 4 boxes of UTP cable from Fatma’s shop. Please let me know if we need another box.

PLEASE NOTE: UPS should be charged for 12 hours before it is used the first time.

Installation Notes

1. Please use Erick’s installation checklist to make sure all steps are completed and you gather all the needed information about the new school.
2. Before you plug anything in, check the computer room voltage with the power meter to make sure it is around 220 volts and stable.
3. I forgot to put the server serial number on the servers. The number for each school is below, and that number should be written on blue tape and put on the back of each server (usually I put it right below the power supply, on the back of the server).

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| --- | --- |
| School | Server S/N |
| Bicha | 2022-09 |
| Bukulu | 2022-10 |
| Chief Dodo | 2022-11 |
| Irkisale | 2022-12 |
| Kiwalala | 2022-13 |
| Mahiwa | 2022-14 |
| Mtama | 2022-15 |
| Namalenga | 2022-16 |
| Nyengedi | 2022-17 |

1. Neal turned off the power supply switch on each server, so you will need to turn it on before you start the server.
2. Since Neal has put security stickers on the server, do not open it unless you experience problems.

If the server does not start properly, take off the cover and check the power connectors to the motherboard, the hard disk and DVD connections, make sure the RAM is inserted fully, and check the network cards to make sure they are inserted completely.

1. I have the specifications for all of the laptops in a spreadsheet. Please leave the blue tape with the number on the laptop, for identification. “AS” with a number means the laptop/adapter was donated by Apto Solutions.

Laptop Notes

Laptops for the 9 new schools are Dell. All of the Dell adapters should work with any Dell laptop, so the adapters are not labeled with a number. For some Dell laptops, you may see a message about the power adapter not providing enough power to charge the battery, or that it can’t identify the power adapter. Please just hit F3, which will disable future warnings. Then hit F1 to continue the boot.

Namanga has a mix of Lenovos and Dells. The Lenovo adapters are in Box S, along with the Lenovo laptops.

I changed a lot of CMOS batteries, but you may see some additional CMOS battery failures. For most of the models, it is very easy to replace the CMOS battery using a CR2032 battery, copper tape, and electrical tape. However there are some laptops that had dead CMOS batteries but are very difficult to replace. So, the Super User should just do “F1” on boot, and do not try to change those CMOS batteries.

There are a few laptops with problems. They should have a piece of blue tape on them, explaining the problem. But they are all usable.

**Complete List of Box Contents (sorted by school)**

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| --- | --- | --- | --- |
| **Box** | **Item** | **Quantity** | **Destination** |
| AA | Desktop computer | 1 | Bicha |
| AA | Network switch, 24-port | 1 | Bicha |
| AA | System admin manual | 1 | Bicha |
| EE | Monitor stand and base | 1 | Bicha |
| EE | Video and power cable | 1 | Bicha |
| FF | Monitor screen | 1 | Bicha |
| C | Laptop | 10 | Bicha |
| C | Laptop adapter | 10 | Bicha |
| C | Mouse | 10 | Bicha |
| C | Keyboard | 1 | Bicha |
| D | Laptop | 10 | Bicha |
| D | Laptop adapter | 10 | Bicha |
| D | Mouse | 11 | Bicha |
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| **Box** | **Item** | **Quantity** | **Destination** |
| AA | Desktop computer | 1 | Bukulu |
| AA | Network switch, 24-port | 1 | Bukulu |
| AA | System admin manual | 1 | Bukulu |
| EE | Monitor stand and base | 1 | Bukulu |
| EE | Video and power cable | 1 | Bukulu |
| FF | Monitor screen | 1 | Bukulu |
| A | Laptop | 10 | Bukulu |
| A | Laptop adapter | 10 | Bukulu |
| A | Mouse | 10 | Bukulu |
| A | Keyboard | 1 | Bukulu |
| B | Laptop | 10 | Bukulu |
| B | Laptop adapter | 10 | Bukulu |
| B | Mouse | 11 | Bukulu |
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| **Box** | **Item** | **Quantity** | **Destination** |
| BB | Desktop computer | 1 | Chief Dodo |
| BB | Network switch, 24-port | 1 | Chief Dodo |
| BB | System admin manual | 1 | Chief Dodo |
| EE | Monitor stand and base | 1 | Chief Dodo |
| EE | Video and power cable | 1 | Chief Dodo |
| FF | Monitor screen | 1 | Chief Dodo |
| E | Laptop | 10 | Chief Dodo |
| E | Laptop adapter | 10 | Chief Dodo |
| E | Mouse | 10 | Chief Dodo |
| E | Keyboard | 1 | Chief Dodo |
| F | Laptop | 10 | Chief Dodo |
| F | Laptop adapter | 10 | Chief Dodo |
| F | Mouse | 11 | Chief Dodo |
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| **Box** | **Item** | **Quantity** | **Destination** |
| BB | Desktop computer | 1 | Irkisale |
| BB | Network switch, 24-port | 1 | Irkisale |
| BB | System admin manual | 1 | Irkisale |
| EE | Monitor stand and base | 1 | Irkisale |
| EE | Video and power cable | 1 | Irkisale [Needs HDMI] |
| FF | Monitor screen | 1 | Irkisale |
| G | Laptop | 10 | Irkisale |
| G | Laptop adapter | 10 | Irkisale |
| G | Mouse | 10 | Irkisale |
| G | Keyboard | 1 | Irkisale |
| H | Laptop | 10 | Irkisale |
| H | Laptop adapter | 10 | Irkisale |
| H | Mouse | 11 | Irkisale |
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| **Box** | **Item** | **Quantity** | **Destination** |
| DD | Desktop computer | 1 | Kiwalala |
| DD | Network switch, 24-port | 1 | Kiwalala |
| DD | System admin manual | 1 | Kiwalala |
| EE | Monitor stand and base | 1 | Kiwalala |
| EE | Video and power cable | 1 | Kiwalala |
| GG | Monitor screen | 1 | Kiwalala |
| O | Laptop | 10 | Kiwalala |
| O | Laptop adapter | 10 | Kiwalala |
| O | Mouse | 10 | Kiwalala |
| O | Keyboard | 1 | Kiwalala |
| P | Laptop | 10 | Kiwalala |
| P | Laptop adapter | 10 | Kiwalala |
| P | Mouse | 11 | Kiwalala |
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| **Box** | **Item** | **Quantity** | **Destination** |
| CC | Desktop computer | 1 | Mahiwa |
| CC | Network switch, 24-port | 1 | Mahiwa |
| CC | System admin manual | 1 | Mahiwa |
| EE | Monitor stand and base | 1 | Mahiwa |
| EE | Video and power cable | 1 | Mahiwa |
| GG | Monitor screen | 1 | Mahiwa |
| I | Laptop | 10 | Mahiwa |
| I | Laptop adapter | 10 | Mahiwa |
| I | Mouse | 10 | Mahiwa |
| I | Keyboard | 1 | Mahiwa |
| J | Laptop | 10 | Mahiwa |
| J | Laptop adapter | 10 | Mahiwa |
| J | Mouse | 11 | Mahiwa |
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| **Box** | **Item** | **Quantity** | **Destination** |
| CC | Desktop computer | 1 | Mtama |
| CC | Network switch, 24-port | 1 | Mtama |
| CC | System admin manual | 1 | Mtama |
| EE | Monitor stand and base | 1 | Mtama |
| EE | Video and power cable | 1 | Mtama |
| GG | Monitor screen | 1 | Mtama |
| K | Laptop | 10 | Mtama |
| K | Laptop adapter | 10 | Mtama |
| K | Mouse | 10 | Mtama |
| K | Keyboard | 1 | Mtama |
| L | Laptop | 10 | Mtama |
| L | Laptop adapter | 10 | Mtama |
| L | Mouse | 11 | Mtama |
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| **Box** | **Item** | **Quantity** | **Destination** |
| EE | Monitor stand and base | 1 | Namalenga |
| EE | Video and power cable | 1 | Namalenga |
| EE | Desktop computer | 1 | Namalenga |
| EE | System admin manual | 1 | Namalenga |
| GG | Monitor screen | 1 | Namalenga |
| GG | Network switch, 24-port | 1 | Namalenga |
| Q | Laptop | 10 | Namalenga |
| Q | Laptop adapter | 10 | Namalenga |
| Q | Mouse | 10 | Namalenga |
| Q | Keyboard | 1 | Namalenga |
| R | Laptop | 10 | Namalenga |
| R | Laptop adapter | 10 | Namalenga |
| R | Mouse | 11 | Namalenga |
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| **Box** | **Item** | **Quantity** | **Destination** |
| DD | Desktop computer | 1 | Nyengedi |
| DD | Network switch, 24-port | 1 | Nyengedi |
| DD | System admin manual | 1 | Nyengedi |
| EE | Monitor stand and base | 1 | Nyengedi |
| EE | Video and power cable | 1 | Nyengedi |
| GG | Monitor screen | 1 | Nyengedi |
| M | Laptop | 10 | Nyengedi |
| M | Laptop adapter | 10 | Nyengedi |
| M | Mouse | 10 | Nyengedi |
| M | Keyboard | 1 | Nyengedi |
| N | Laptop | 10 | Nyengedi |
| N | Laptop adapter | 10 | Nyengedi |
| N | Mouse | 11 | Nyengedi |
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| **Box** | **Item** | **Quantity** | **Destination** |
| T | Laptop | 2 | Spares/Inventory |
| T | Laptop adapter | 2 | Spares/Inventory |
| T | Mouse | 2 | Spares/Inventory |
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| **Box** | **Item** | **Quantity** | **Destination** |
| FF | Team Supplies |  | Team |
| S | Team Supplies |  | Team |
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| **Box** | **Item** | **Quantity** | **Destination** |
| S | Laptop | 10 | Namanga |
| S | Laptop adapter | 10 | Namanga |
| S | Mouse | 10 | Namanga |
| T | Laptop | 4 | Namanga |
| T | Laptop adapter | 4 | Namanga |
| T | Mouse | 4 | Namanga |
|  |  |  |  |
| **Box** | **Item** | **Quantity** | **Destination** |
| T | Laptop | 4 | Amani Abeid Karume |
| T | Laptop adapter | 4 | Amani Abeid Karume |
| T | Mouse | 4 | Amani Abeid Karume |

Kondoa (2 new schools): Boxes A, B, C, D, AA, items from EE, items from FF

Kondoa (Amani Abeid Karume): 4 laptops/adapters/mice from Box T [plus Box in David’s office with 10 laptops/adapters/mice and 48-port switch]

Manyara (1 school): Boxes E, F, items from BB, items from EE, items from FF

Monduli (1 school): Boxes G, H, items from items from BB, items from EE, items from FF

Lindi (5 schools): Boxes I, J, K, L, M, N, O, P, Q, R, CC, DD, items from EE, items from GG

Longido (Namanga): 14 laptops/adapters/mice from Box S and Box T [plus old 24-port switch from Amani Abeid]

Spares/Inventory (Ashura): 2 laptops/adapters/mice from Box T